

WHAT IS CLAIMED IS:

- 1 1. A track assembly for track guided toy vehicle, the track assembly comprising:
2 multiple track units connected to one another and each track unit having:
3 a supporting plate having multiple pairs of through holes defined through the
4 supporting plate;
5 two tracks slidably mounted on the supporting plate;
6 a connecting plate fixture securely mounted beneath the supporting plate at two
7 opposite ends of the supporting plate to receive therein a first connecting plate and a
8 second connecting plate to be in engagement with the two tracks.
- 9 2. The track assembly as claimed in claim 1, wherein the supporting plate has
10 multiple pairs of retainers widthwise formed on the supporting plate and having a path
11 defined between each pair of retainer to receive therein one of the tracks.
- 12 3. The track assembly as claimed in claim 2, wherein each track is T-shaped
13 such that the T-shaped track is able to be received in the path in each of the retainers.
- 14 4. The track assembly as claimed in claim 1, wherein the connecting plate
15 fixture includes two connecting plate seats oppositely secured to a bottom face of the
16 supporting plate and each connecting plate seat being configured to be an L shape to
17 have a vertical portion and a horizontal portion, a first connecting plate securely
18 received in the connecting plate seat and having a first flat engaging end and an open
19 end, a second connecting plate received in the connecting plate seat and having a second
20 flat engaging end and a pointed end, a first spring having a first end abutted to the first
21 flat engaging end of the first connecting plate and a second end extending upward to
22 engage with one of the two tracks and a second spring having a first end abutted to the
23 second flat engaging end of the second connecting plate and a second end extending

1 upward to engage with the other track of the two tracks such that electrical connection
2 between the two tracks and the first and the second connecting plates is finished and
3 extending the pointed ends of the second connecting plates from two different track
4 units into the open ends of the first connecting plates from the two different track units is
5 able to complete connection between the two different track units.

6 5. The track assembly as claimed in claim 4, wherein the connecting plate seat
7 has a first channel defined on the vertical portion and in a top face of the connecting
8 plate seat to correspond to and receive therein the first connecting plate, a first space in
9 communication with the first channel and defined at a joint between the vertical portion
10 and the horizontal portion to correspond to and receive therein the first flat engaging end
11 of the first connecting plate, a second channel defined in the horizontal portion and the
12 top face of the connecting plate seat to correspond to and receive therein the second
13 connecting plate and a second space in communication with the second channel to
14 correspond to and receive therein the second flat engaging end of the second connecting
15 plate.

16 6. The track assembly as claimed in claim 4, wherein the supporting plate has
17 two pairs of through holes defined through the supporting plate to allow the first and
18 second springs to extend therethrough hole.

19 7. The track assembly as claimed in claim 5, wherein the supporting plate has
20 two pairs of through holes defined through the supporting plate, the first spring has a
21 first end abutted to the first flat engaging end of the first connecting plate and a second
22 end extending through one through hole of a pair of the through holes to engage with
23 one of the two tracks, the second spring has a first end abutted to the second flat
24 engaging end of the second connecting plate and a second end extending through the
25 other through hole of the pair of the through holes to engage with the other one of the

1 two tracks.

2 8. The track assembly as claimed in claim 4, wherein the supporting plate has
3 two pairs of positioning rods extending from the bottom face of the supporting plate to
4 respectively correspond to two positioning holes in each of the two connecting plate
5 seats to secure engagement of the two connecting plate seats to the supporting plate.

6 9. The track assembly as claimed in claim 5, wherein the supporting plate has
7 two pairs of positioning rods extending from the bottom face of the supporting plate to
8 respectively correspond to two positioning holes in each of the two connecting plate
9 seats to secure engagement of the two connecting plate seats to the supporting plate.

10 10. The track assembly as claimed in claim 6, wherein the supporting plate has
11 two pairs of positioning rods extending from the bottom face of the supporting plate to
12 respectively correspond to two positioning holes in each of the two connecting plate
13 seats to secure engagement of the two connecting plate seats to the supporting plate.

14 11. The track assembly as claimed in claim 7, wherein the supporting plate has
15 two pairs of positioning rods extending from the bottom face of the supporting plate to
16 respectively correspond to two positioning holes in each of the two connecting plate
17 seats to secure engagement of the two connecting plate seats to the supporting plate.

18 12. The track assembly as claimed in claim 4, wherein each of the two
19 connecting plate seats has a first hook and a second hook formed on a side face of the
20 vertical portion and a second hook formed on the side face of the vertical portion and on
21 top of the first hook such that the first hook from one track unit is able to engage with the
22 second hook of a different track unit to secure engagement between two track units.

23 13. The track assembly as claimed in claim 5, wherein each of the two
24 connecting plate seats has a first hook and a second hook formed on a side face of the
25 vertical portion and a second hook formed on the side face of the vertical portion and on

1 top of the first hook such that the first hook from one track unit is able to engage with the
2 second hook of a different track unit to secure engagement between two track units.

3 14. The track assembly as claimed in claim 6, wherein each of the two
4 connecting plate seats has a first hook and a second hook formed on a side face of the
5 vertical portion and a second hook formed on the side face of the vertical portion and on
6 top of the first hook such that the first hook from one track unit is able to engage with the
7 second hook of a different track unit to secure engagement between two track units.

8 15. The track assembly as claimed in claim 7, wherein each of the two
9 connecting plate seats has a first hook and a second hook formed on a side face of the
10 vertical portion and a second hook formed on the side face of the vertical portion and on
11 top of the first hook such that the first hook from one track unit is able to engage with the
12 second hook of a different track unit to secure engagement between two track units.

13 16. The track assembly as claimed in claim 8, wherein each of the two
14 connecting plate seats has a first hook and a second hook formed on a side face of the
15 vertical portion and a second hook formed on the side face of the vertical portion and on
16 top of the first hook such that the first hook from one track unit is able to engage with the
17 second hook of a different track unit to secure engagement between two track units.

18 17. The track assembly as claimed in claim 9, wherein each of the two
19 connecting plate seats has a first hook and a second hook formed on a side face of the
20 vertical portion and a second hook formed on the side face of the vertical portion and on
21 top of the first hook such that the first hook from one track unit is able to engage with the
22 second hook of a different track unit to secure engagement between two track units.

23 18. The track assembly as claimed in claim 10, wherein each of the two
24 connecting plate seats has a first hook and a second hook formed on a side face of the
25 vertical portion and a second hook formed on the side face of the vertical portion and on

1 top of the first hook such that the first hook from one track unit is able to engage with the
2 second hook of a different track unit to secure engagement between two track units.

3 19. The track assembly as claimed in claim 11, wherein each of the two
4 connecting plate seats has a first hook and a second hook formed on a side face of the
5 vertical portion and a second hook formed on the side face of the vertical portion and on
6 top of the first hook such that the first hook from one track unit is able to engage with the
7 second hook of a different track unit to secure engagement between two track units.